

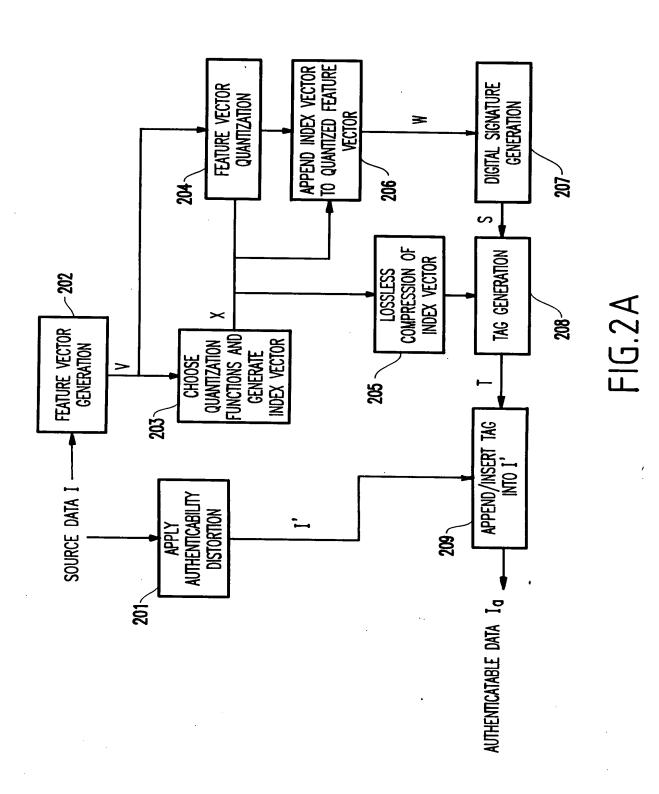
EXTRACT T AUTHENTICATION TAG

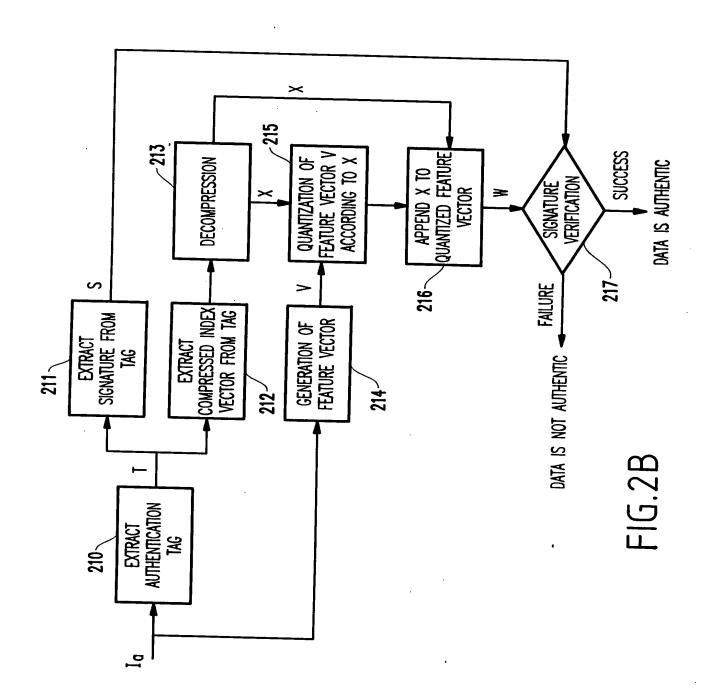
DOES T NO
CORRESPONDS NO
DATA IS NOT AUTHENTIC

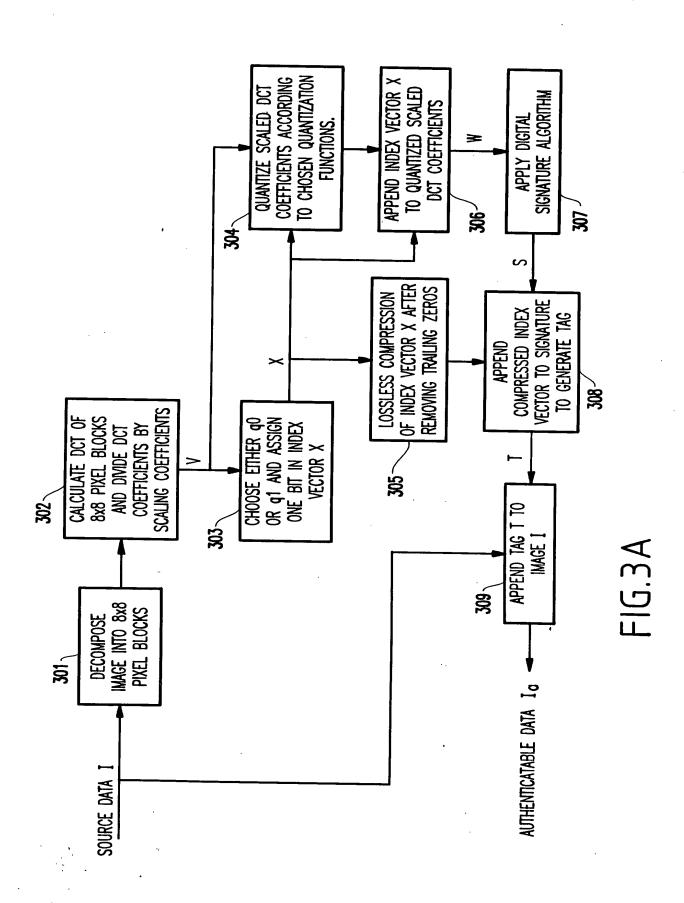
DATA IS AUTHENTIC

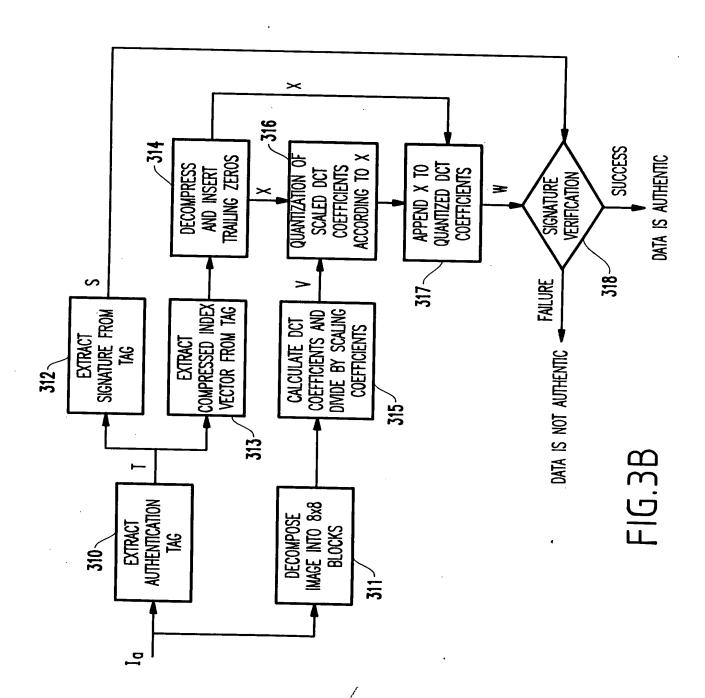
FIG.1A

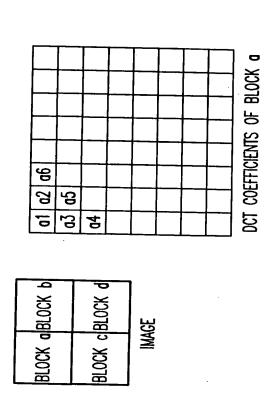
FIG.1B







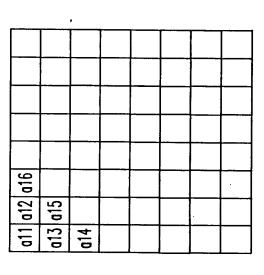




xal xb1 xc1 xd1 xd2 xb2 ...

aj IS THE j-TH DCT COEFFICIENT OF BLOCK a. xaj IS THE BIT CORRESPONDING TO THE QUANTIZATION FUNCTION CHOSEN FOR DCT COEFFICIENT aj. FIG.5A

BITS OF INDEX VECTOR X



BLOCK b

BLOCK a

BLOCK d

BLOCK c

COLOR IMAGE

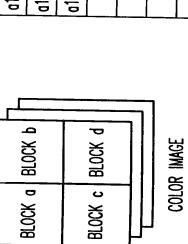
DCT COEFFICIENTS OF BLOCK a OF COLOR PLANE 1

:	
xa 19	
xd38xa1	>
	rTOR
xa21	\ \ \
xd18xa2	RITC OF INDEX VENTOR
:	JU.
xb18	RITC
xb12	
xb11	
(a 18)	
:	
xa12	
xa11	

BIIS OF INDEX VECTOR X

xaji is the bit corresponding to the quantization function chosen for dct coefficient aij. aji IS THE j-TH DCT COEFFICIENT OF BLOCK a OF COLOR PLANE i.

## FIG.5B



			L		
<b>a</b> 16					
a11 a12 a16	<b>a15</b>				
011	a13 a15	014			

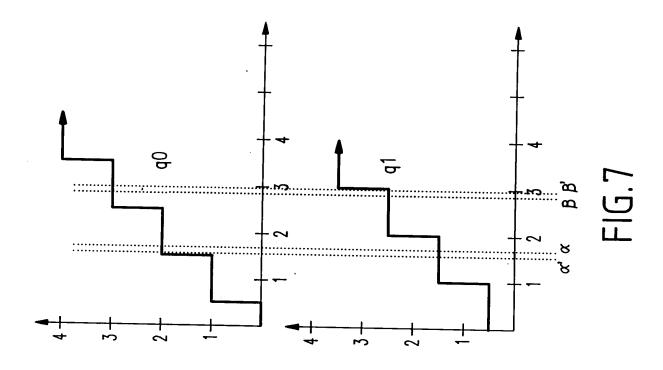
DCT COEFFICIENTS OF BLOCK a OF COLOR PLANE 1

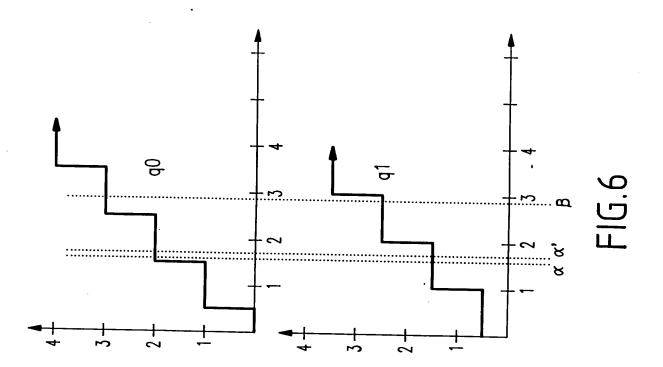
xa11|xb11|xc11|xd11|xa21|xb21|xc21|xd21|xa31|xb31|xc31|xd31|xa12| ...

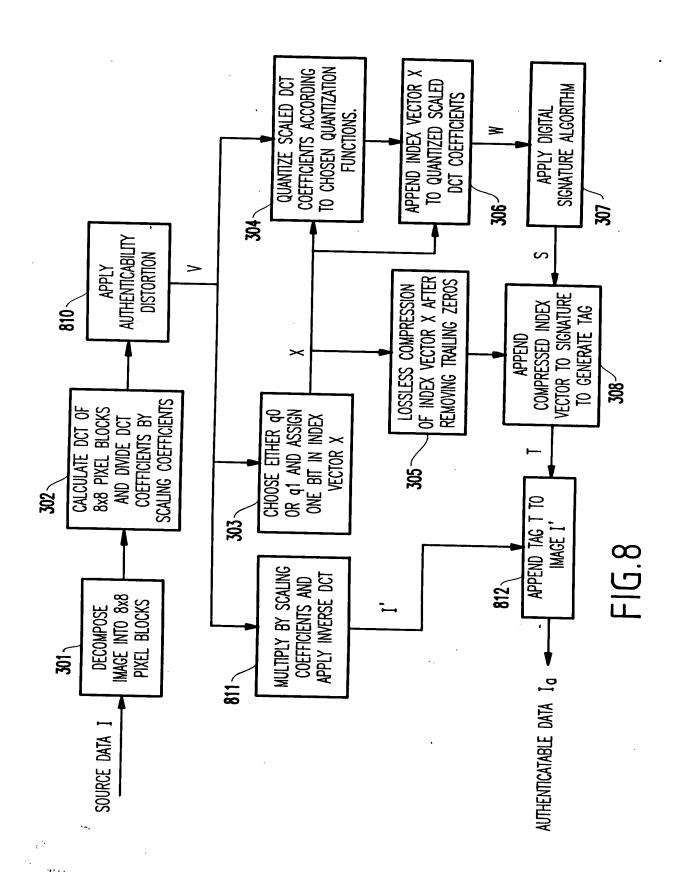
BITS OF INDEX VECTOR X

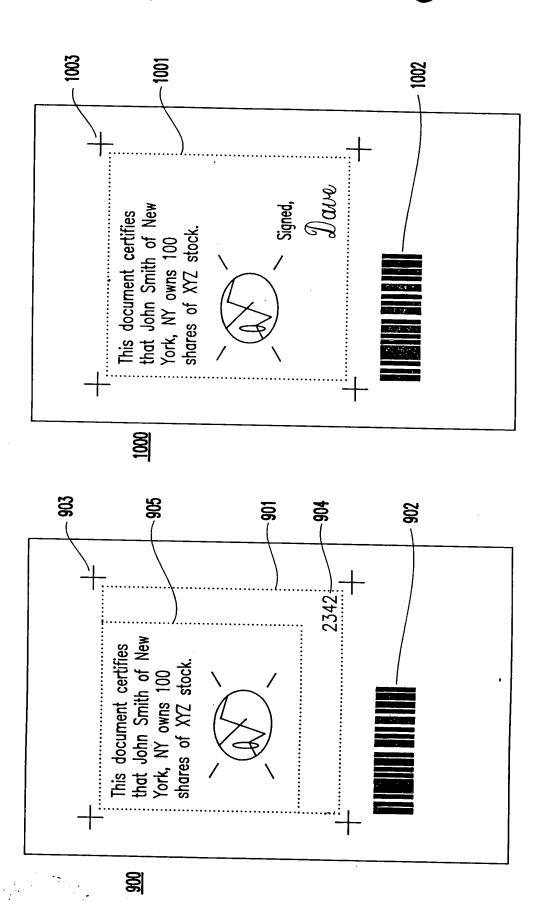
ajj is the j—th dct coefficient of block a of color plane i. Xajj is the bit corresponding to the quantization function chosen For dct coefficient ajj.

F16.5C



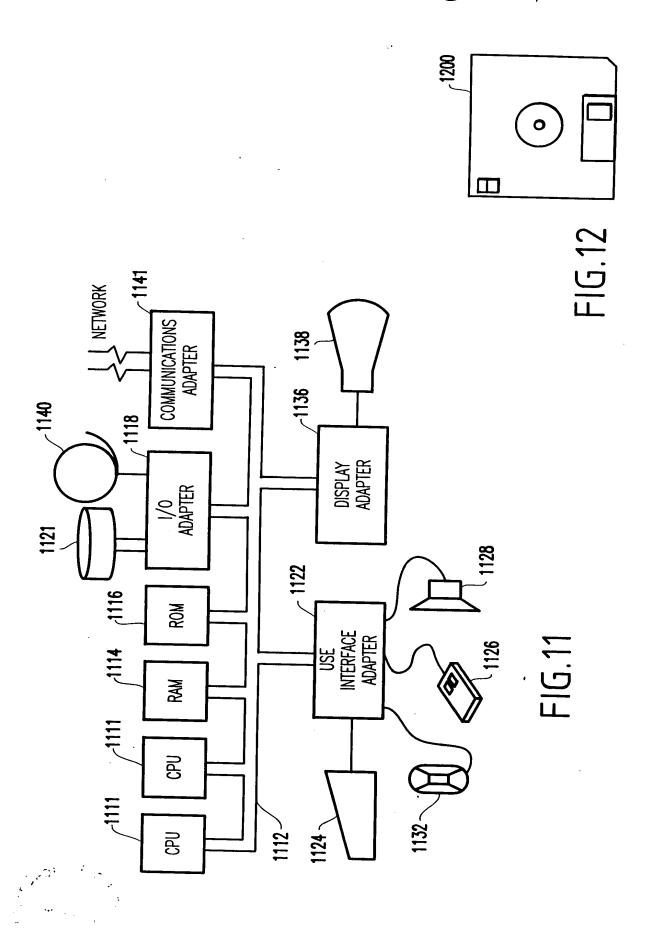






F1G.9

FIG.10



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